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REPORT OF ANALYSIS

Investigation: Determination of the assay of 4-Pentoxyl-4-terphenylcarboxylic acid in the sample WV 03-157-1 produced in accordance with part C of the Balkevec reference USP 5,948,753 by liquid chromatography (HPLC)

Sample: WV 03-157-1
Customer: Dr. Nerdinger
Method: LM-LC-278
Raw data: LC-894403

Analytical result: The current investigation should determine the assay of 4-Pentoxyl-4-terphenylcarboxylic acid in the sample WV 03-157-1 produced in accordance with part C of the Balkevec reference USP 5,948,753.

For the analysis of 4-Pentoxyl-4-terphenylcarboxylic acid a liquid chromatographical method is used. The analysis is carried out by HPLC on a reversed phase silica gel as the stationary phase (elution: acetonitrile/water). UV absorption at three wavelengths (240nm, 270nm and 300nm) is used for detection to confirm the obtained results. The quantification is made by reference material in weight-percent.

The HPLC-analysis leads to nearly the same results at three wavelengths, see table below.

wavelength	Assay of 4-Pentoxyl-4-terphenylcarboxylic acid
240 nm	0.29 % [w/w]
270 nm	0.33 % [w/w]
300 nm	0.25 % [w/w]

The documentation of the HPLC-method is disposed in the raw data and there detailed described. In the chromatograms (Appendix 1) the peaks of interest are labeled with the product name 4-Pentoxyl-4-terphenylcarboxylic acid.

(Stephanie Bär)

Appendix 1

Dr. S. Nerdinger



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Appendix 1

Chromatograms of the sample WV 03-157-1 at three different wavelengths:

